Sl.No: M2130 Course Code: BP501T

VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY), SALEM

B.PHARM. DEGREE EXAMINATION – July 2021 Fifth Semester

MEDICINAL CHEMISTRY - II

Time: Three hours	Maximum:	75 marks
I. Write essays on any TWO questions:	(2	x 10 = 20)
1. a) Classify alkylating agents with structures.		(4)
b) Describe the mechanism of action and structure activity relationship of		
alkylating agents.	· ·	(6)
2. a) What are antihypertensive agents?		(2)
b) Classify them with examples.		(4)
c) Outline the synthesis of methyl dopate hydrochlo	ride.	(4)
3. a) What are local anesthetics? Classify them with ex	kamples.	(6)
b) Outline the synthesis of procaine.		(4)
II. Write short answers on any SEVEN questions:	($(7 \times 5 = 35)$
4. Chemistry of loop diuretics.		
5. Structure and therapeutic uses of lidocaine hydrochl and methadione.	loride, sotalol	, digoxin
6. Outline the synthesis and mechanism of action of m	ethimazole.	
7. Write short notes on drugs used in erectile dysfunction.		
8. Structure and therapeutic uses of any four corticoste	eroids.	
9. Write a note thyroid drugs.		
10. Write the chemical structure and use of a) Acetazolamide		
b) Mercaptopurine c) Dibucaine		
11. Describe the structure activity relationship (SAR) of progesterones.		
12. What is hyperglycemia? Write the mechanism and synthesis of		
tolbutamide.		
III. Write short notes on:	(1	$10 \times 2 = 20$
13. Mechanism of action of H ₂ antagonists.		
14. Write the structure and use of sildenafil.		
15. Synthesis of furosemide.		
16. Any two synthetic estrogens.		
17. What are vasodilators?		
18. Synthesis of tolbutamide.		
19. Any two ACE inhibitors.		
20. Classify anti hyperlipidemic agents.		
21. Synthesis of chlorthiazide.		

22. Mechanism of action of digoxin.